

The background of the banner is a photograph of an electric vehicle (EV) charging station. A black charging cable is plugged into the side of a dark-colored car. The car's side mirror is visible in the upper right. The background is slightly blurred, showing a city street with buildings and a sidewalk. A semi-transparent dark green overlay covers the entire image. In the top left, there is a small logo consisting of a vertical line of green dots. The title 'GreenNY Council Meeting' is written in white text on the left side. The date 'June 14, 2023' is in the bottom left, and the logos for 'NEW YORK STATE' and 'GreenNY' are in the bottom right.

GreenNY

Council Meeting

June 14, 2023



GreenNY

Agenda

- > Introductions
- > Approval of Minutes
- > Public Comment Opportunity
- > Working Group and Guidance Updates
- > Fiscal Year 2024 Enacted Budget Highlights
- > Procurement Specifications
- > GreenNY in Action Presentation
- > Final Comments and Adjournment



GreenNY

Approval of Minutes for the March 2023 GreenNY Council Meeting



GreenNY

Public Comment Opportunity



GreenNY

Working Group and Guidance Updates



Working Groups



Reporting

On track to release 2023 report during climate week (September).



Procurement

Voting on tentative approval for carpeting specifications.



Operations & Engagement

- Updated sustainability coordinator contact list.
- Finalizing Sustainable U training program for sustainability coordinators.



Zero Emission Vehicles

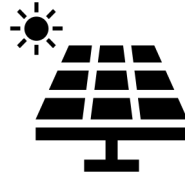
Posted agency guidance on SharePoint.



GreenNY



Working Groups



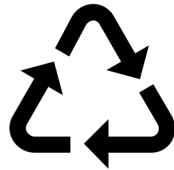
100% Renewable Electricity by 2030

Developing workplan for working group milestones and organization.



Disadvantaged Communities

Developing map for NY disadvantaged communities.



Waste Management

Finalizing waste plan template for agency engagement.



Embodied Carbon

Providing trainings and webinars on the new Embodied Carbon Guidance.



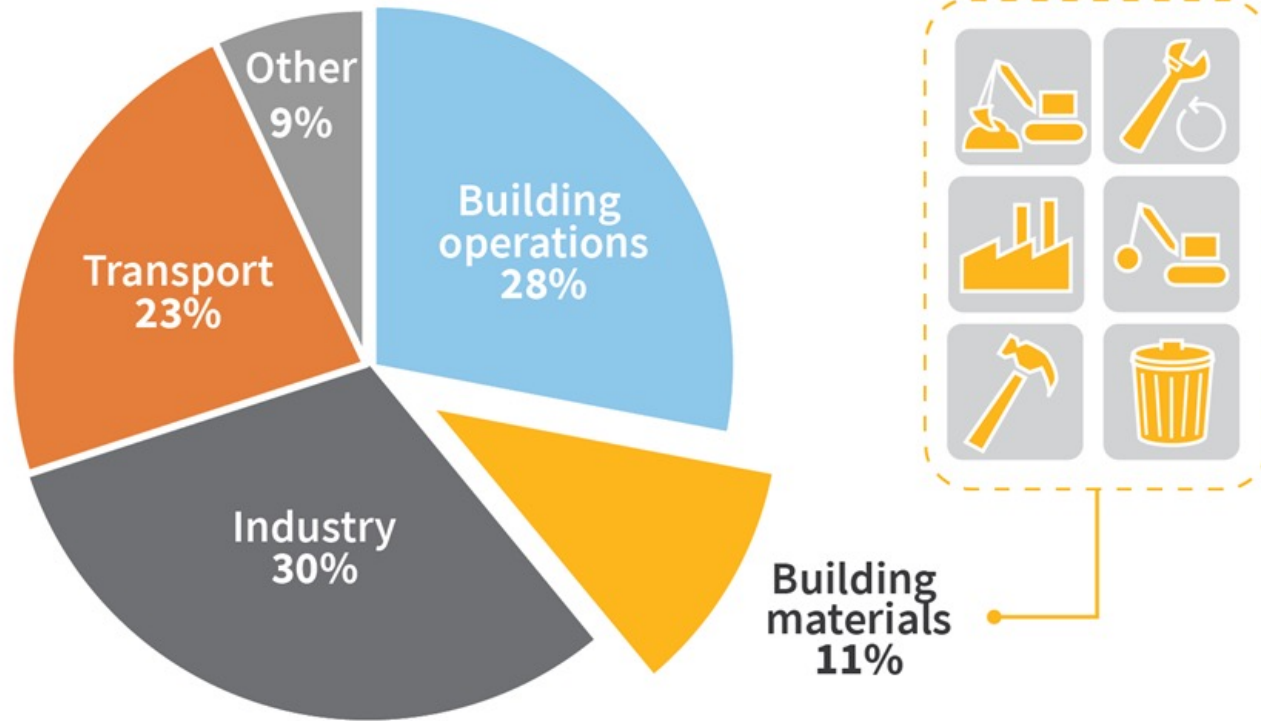
GreenNY



Embodied Carbon Guidance

- >Context: Embodied Carbon, EPDs & EO22
- >Stakeholder Engagement
- >Embodied Carbon Guidance Approach
- >Key elements of the guidance
- >Implementation

Context



*Global energy-related CO₂ emissions.
Adapted from the UNEP 2019 Global Status Report*

© Copyright 2020, Carbon Leadership Forum

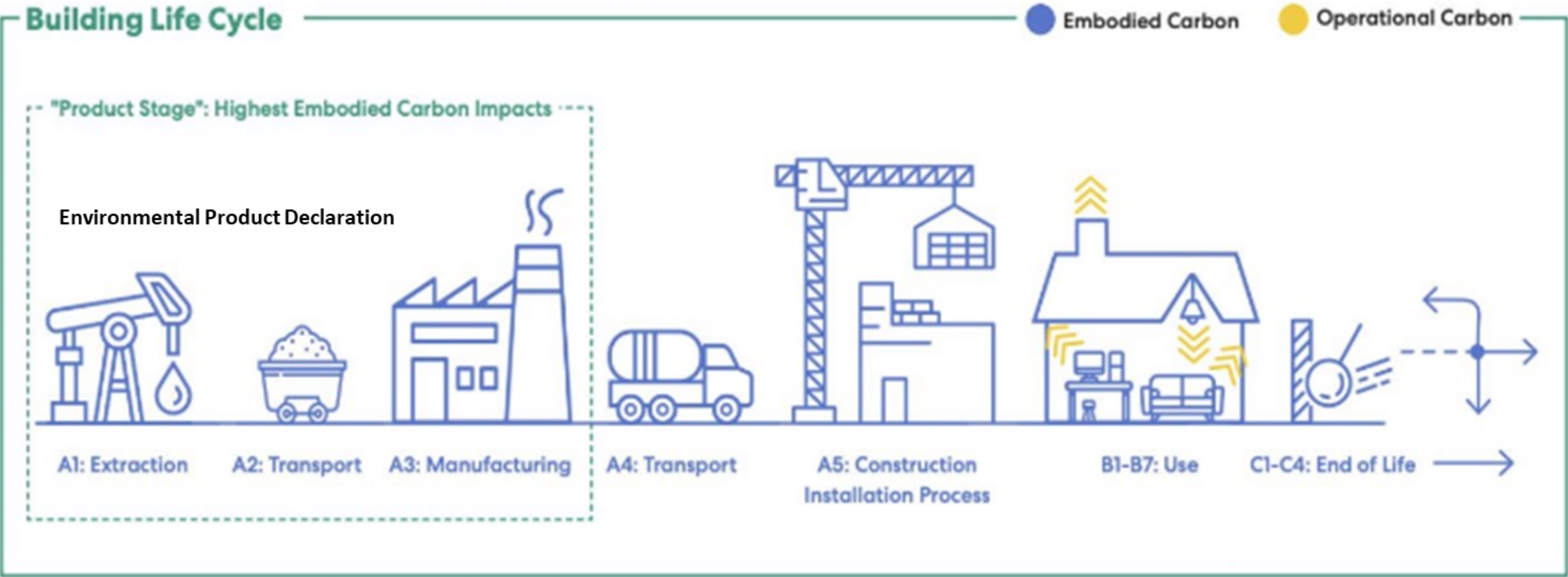
Local efforts:

- EO22
- CAC Scoping Plan
- LECCLA
- Buy Clean Federal-State Partnership



GreenNY

Carbon Footprint: Embodied Carbon



GreenNY

Environmental Product Declaration (EPD)

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ECOPact
The Green Concrete

This Environmental Product Declaration (EPD) reports the impacts for 1 m³ of ready mixed concrete mix, meeting the following specifications:

- ASTM C94: Ready-Mixed Concrete
- UNSPSC Code 30111505: Ready Mix Concrete
- CSA A23.1/A23.2: Concrete Materials and Methods of Concrete Construction
- CSI Division 03-30-00: Cast-in-Place Concrete


COMPANY

Holcim
8700 Bryn Mawr Ave Suite #300
Chicago, IL 60631-3512

PLANT

Fort Totten (DC) Plant
5001 Fort Totten Dr. NE
Washington, DC 20011

EPD PROGRAM OPERATOR



ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428

DATE OF ISSUE

07/16/2021 (valid for 5 years until 07/16/2026)

ENVIRONMENTAL IMPACTS

Declared Product:
Mix ECOS80504 • Fort Totten (DC) Plant
Description: 8000,ECOPACT, STANDARD PST NAE HRWR
Compressive strength: 8000 PSI at 28 days

Declared Unit: 1 m³ of concrete

Global Warming Potential (kg CO ₂ -eq)	320
Ozone Depletion Potential (kg CFC-11-eq)	9.31E-6
Acidification Potential (kg SO ₂ -eq)	1.27
Eutrophication Potential (kg N-eq)	0.59
Photochemical Ozone Creation Potential (kg O ₂ -eq)	22.1
Abiotic Depletion, non-fossil (kg Sb-eq)	4.49E-5
Abiotic Depletion, fossil (MJ)	1,712
Total Waste Disposed (kg)	4.37
Consumption of Freshwater (m ³)	3.67

Product Components: crushed aggregate (ASTM C33), natural aggregate (ASTM C33), Portland cement (ASTM C150), slag cement (ASTM C989), admixture (ASTM C494), batch water (ASTM C1602)

Additional detail and impacts are reported on page three of this EPD

*Equivalent of
“nutrition label”
providing information
on multiple
environmental impact
categories*



GreenNY

Executive Order 22

D. The [GreenNY] Council shall issue Operational Directives and guidance for common construction materials to reduce the amount of embodied carbon in such materials. Starting January 1, 2023, Affected Entities shall seek to reduce the embodied carbon in all new construction or construction projects consisting of adaptive reuse or significant renovations that cost greater than 50% of the cost of new construction, submitted for permitting by Affected Entities, by taking the following actions:

- 1. Design teams shall calculate the total embodied carbon that will result from the project, including shipping, transportation, and construction equipment requirements.*
- 2. Bidders shall be required to submit environmental product declarations when available, that include the amount of embodied carbon in given building materials.*



GreenNY

Stakeholder Engagement

- > **Federal:** GSA, EPA
- > **NYS:** OGS D&C, DASNY, PARKS, DEC, SUCF, DOT, MTA, PANYNJ
- > **Gvt entities:** CA DGS, Caltrans, CO OSA, CO DOT, OR DOT, SFO, Marin County, NYC, City of Portland
- > **NGO/Think Tanks:** CLF, RMI, NRDC, MIT Concrete Sustainability Hub, Building Transparency
- > **Industry:** National Ready Mixed Concrete Association, Associated General Contractors



GreenNY

Embodied Carbon Guidance Approach

Two potential approaches to reducing embodied carbon in construction:

1. Set Global Warming Potential (GWP) Limit for specific materials via Procurement
2. Project-based GWP budgeting/reduction via Scoping/Design

Both approaches require data collection & setting a baseline to understand the profile of our construction materials used for the largest projects.

Key elements of the Guidance

- **All new projects over \$1m (total project cost)**
- **Covered Construction Materials, and reporting quantities:**
 - **Concrete** mixes, at least 50 cubic yards
 - **Asphalt** mixes, at least 10 cubic yards or 16,854 pounds
 - **Steel** – 20,000 pounds or more for rebar; 5,000 pounds or more, for all others
 - **Glass** - 2,000 square feet or more
 - **Disclosure** – Agencies will disclose quantities of materials & collect EPDs & GWPs where they exist, through annual reporting.

Implementation of Embodied Carbon Guidance

- a. Agencies to update their authorized contracts no later than October 1, 2023 to require data collection.
- b. Agencies to disclose materials and embodied carbon data, by fiscal year. Reporting on fiscal year will be due Aug 31, 2024.
- c. OGS & NYSERDA to provide capacity building, technical assistance, interagency working group & database solution.
- d. OGS to host Technical Advisory group that includes industry/academics/other experts .
- e. Engaging with US Climate Alliance's Buy Clean Federal-State Partnership



GreenNY

Fiscal Year 2024 Enacted Budget Highlights



Appropriations

- > \$400 million Environmental Protection Fund
- > \$200 million for the NYSERDA EmPower Plus Program
- > \$30 million for the SUNY Albany chiller plant
- > \$20 million for mass transit bus electrification
- > \$17 million for light duty vehicle electrification
- > \$1 million for the Office of Just Energy Transition



Article VII: Zero Emission Buildings (ELFA Part RR)

Zero Emission New Construction

Building systems and/or equipment that burn fossil fuels will be prohibited in new construction starting December 31, 2025 for any new building seven stories or lower, and December 31, 2028 for all new buildings.


Existing State-owned Facilities

NYPA will allocate up to \$30 million to prepare decarbonization action plans for 15 of the highest-emitting state facilities, which must be completed no later than January 31, 2026.



Article VII: NYPA Renewables (ELFA Part QQ)

- > Authorizes NYPA to plan, design, develop, finance, construct, own, operate, maintain and improve either alone or jointly with other entities, renewable energy generating projects in the state.
- > Directs NYPA to establish the “Renewable Energy Access and Community Help Program”.
- > Directs NYPA to propose a plan to phase out its small natural gas power plants, “Peaker plants”, by December 31, 2030.
- > Directs up to \$25 million annually for DOL to help prepare workers for employment in the renewable energy field.



Article VII: Cap-and-Invest (ELFA Part TT)

- > Creates the financial foundation required to support an economy-wide Cap-and-Invest Program.
- > The proceeds of this program will support the transition to cleaner, healthier, more climate-resilient energy solutions.
- > Eligible construction projects must meet prevailing wage standards, developers must enter into a labor peace agreement with a labor organization, use apprenticeship agreements, and use American produced iron and steel, if not cost-prohibitive.
- > NYSERDA and DEC, in consultation with DOB, DPS, and TAX, will conduct a Climate Affordability Study for the use Climate Action Fund moneys by January 1, 2024.



Procurement Specifications for Tentative Approval and Posting for Public Comment

- Specifications for review:
 - [New] Carpet Cleaning



GreenNY



New York State Electric Vehicle Fleet Event

Office of General Services and NYPA co-hosted an Electric Vehicle Fleet Event at Empire State Plaza on June 06.



- Event brought together vehicle manufacturers, dealerships, and charging companies with State employees involved in electric fleet conversion
- Over 250 attendees participated in wide-ranging conversations with OGS and NYPA teams responsible for leading vehicle electrification
- Panel recording on EV Conversion best practices will be posted to OGS EV Fleet page





GreenNY

GreenNY@dec.ny.gov